

**МГ-3II EQUIPMENT**

FOLDER N2

GENERAL DIAGRAMS

/У1106.046 0П5

**МГ-311 EQUIPMENT**

TABLE OF CABLE CORES  
TO CONNECTION DIAGRAMS

Л/У1106.046 Д

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SONAR TARGET DATA EQUIPMENT  
MT-311

TABLE OF CABLE CORES TO CONNECTION  
DIAGRAM  
JVI.106.046 A

on 23 sheets

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Core No.	Name of core	Core goes from	Core goes to	Remark
Strip No.		Strip No.	Term. No.	
1	1) K90 6 x 1.5 [3]	Unit	Unit	2
2	Ground		8 <sub>3</sub>	
3	110 V 50 Hz		8	
4	Phase 3 0V/0		2	
5	Phase 2 0V/0		3	
6	Phase 1 0V/0		4	
7	110 V, 50 Hz		5	
1	2) K90 6 x 1.5 [4]	Unit	Unit	1
2	Ground		8 <sub>3</sub>	
3	Signal YM	Chassis	2	
4	Ground		3	
5	Signal XK		4	
6	Signal ME		5	
7				
1	3) K90 6 x 1.5 [6]	Unit	Unit	8 <sub>3</sub>
2	Ground		8	
3	Checkback	Chassis	2	
4	Do		3	
5	Signal Zk		4	
6	Do		5	
7	Checkback		1	

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1	2	3	4	5	6	7
	(4) K30 6 x 1.5 <sup>1</sup> (4)	Unit	1	Unit	13	
1	Ground					
2	Signal X <sub>1</sub> HK	Chassis				
3	Signal KY					
4	Ground					
5						
6						
7	Signal AK HK					
	(5) K30 6 x 1.5 <sup>1</sup> (5)	Unit	1	Unit	13	
1	Ground					
2	Signal					
3	Do					
4	Do					
5	Do					
6						
7						
	(6) K30 6 x 1.5 <sup>1</sup> (6)	Unit	1	Unit	13	
1	Ground					
2	Signal					
3	Do					
4	Do					
5	Do					
6						
7						



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1	2	3	4	5	6	7
1	7' KHP3 5 x 2.5 [3]	HM	1111	Unit	204	
2	220 V 50 Hz	C1		3	1	
3	Do	C2		3	2	
4	Do	C3		3	3	
5						
1	8' KHP3 7 x 1 [5]	Unit	2	Unit	22	
2	+ 110 V to interlock	21	1	50	6	
3	- 110 V to interlock	21	2	50	5	
4	+ 110 V from interlock	21	2	50	4	
5	- 110 V from interlock	21	3	50	1	
6-7	Ground	22	3	50		
1	9' K84 2 x 1.5 [2]	Unit	1A	Unit	83	
2	Pressure check			4	6	
	Do			4	7	

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1	2	3	4	5	6	7
	10. KHEPT9 30 x 1 [20]		Unit 4	Unit	4	
1	Signal UV (P4)	10				
2	Signal UV (P1)	16			1	
3	Signal UV (P2)	16			2	
4	Target data accepted	16			3	
5	Signal UV (P1)	16			4	
6	Take target data	16			5	
7	26 V, 50 Hz	16			6	
8	Target lost	16			7	
9	Scale II signalling	28			8	
10	Scale III signalling	28			9	
11					10	
12	Phase 3 (A)	29				
13	Phase 2 (A)	29				
14	Phase 1 (A)	29			2	
15	110 V, 50 Hz	29			3	
16	110 V, 50 Hz	29			4	
17	Signal RC	16			5	
18		28			6	
19					7	
20	Sig AL OC	28			8	
21					9	
22	Ring signalling	28			10	
23	+ 110 V	29				
24					9	
25	Chassis	28			10	
26						
27-28					8	
29-30						

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1	2	3	4	5	6	7
	(1) KHP3 7 x 1.5 <sup>11</sup> [5]	"MP-312N"	Unit 4	Unit		
1	Ping synchronization	18	8		7	
2	Do	18		56	3	
3	Scale signalling	18	7	56	4	
4	Do	18	6	56	5	
5	Relay control	18	5	56	6	
			6	56	7	
	(2) KHP3 14 x 2.5 <sup>11</sup> [2]	Unit	21	Unit	8	
1	220 V, 500 Hz	51	3		1	
2	Do	51	4	1	2	
3	36 V, 500 Hz	50	3	1	9	
4	Do	50	4	1	10	
5	+ 110 V	51	1	2	1	
6	- 110 V	51	2	2	1	
7	220 V, 500 Hz standby	51	6	2	10	
8	110 V, 500 Hz	50	1	3	1	
9	220 V, 500 Hz standby	51	5	2	9	
10	220 V, 500 Hz standby	50	2	3	2	
11	110 V, 50 Hz	50	7	4	1	
12	Do	50	8		2	
13-14						
15-16						

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1	2	3	4	5	6	7
	(13) KRP9 10 x 2.5 <sup>□</sup> (2)	Unit		Unit	9	
1	220 V, 50 Hz	52	4	1	1	
2	Do	12			2	
3	Do	12		1	3	
4	220 V, 50 Hz standby	52	5	1	1	
5	Do	52	6	1	1	
6	Do	52	7	2	2	
7	26 V, 50 Hz	32	8	5	3	
8	Do	52		5	3	
9					3	
10					3	
	(14) KRP9 7 x 1.5 <sup>□</sup> (5)	Unit		Unit	8	
1	220 V, 500 Hz	1	1	6	7	
2	220 V, 500 Hz	1	2	6	8	
3	220 V, 500 Hz standby	1	9	6	1	
4	Do	2	10	6	2	
5	220 V, 500 Hz	1	3	8	6	
6-7						
	(15) KRP9 7 x 1.5 <sup>□</sup> (10)	Unit		Unit	18	
1	110 V, 500 Hz	2	1	39	1	
2	Do	4	8	39	2	
3	110 V, 50 Hz	4	9	39	3	
4	Do	4	5	39	4	
5	26 V, 50 Hz	4	6	39	5	
6	Do	4	9	39	6	
7			10	39		

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1	2	3	4	5	6	7
	(13) KRP3 10 x 2.5 <sup>n</sup> [8]	Unit		Unit	g <sub>2</sub>	
1	220 V, 50 Hz	52	4	1	1	
2	Do	42	5	1	2	
3	Do	51	6	1	3	
4	220 V, 50 Hz standby	52	7	1	4	
5	Do	52	8	1	5	
6	Do	52	9	1	6	
7	26 V, 50 Hz	52	10	1	7	
8	Do	32			8	
9					9	
10					10	
	(14) KRP3 7 x 1.5 <sup>n</sup> [5]	Unit	R <sub>1</sub>	Unit	8	
1	220 V, 500 Hz	1	1	6	7	
2	220 V, 500 Hz	1	2	6	8	
3	220 V, 500 Hz standby	1	3	6	9	
4	Do	2	4	6	10	
5	220 V, 500 Hz	1	5	6	1	
6-7			6	6	2	
	(15) KRP3 7 x 1.5 <sup>n</sup> [6]	Unit	A <sub>1</sub>	Unit	18	
1	110 V, 500 Hz	2	8	39	1	
2	Do	3	9	39	2	
3	110 V, 50 Hz	4	10	39	3	
4	Do	4		39	4	
5	26 V, 50 Hz	4		39	5	
6	Do	4		39	6	
7						

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1	2	3	4	5	6	7
	(16) KHP5 7 1.5 <sup>B</sup> [10]	Unit	R <sub>1</sub>	Unit	7	
1	36 V, 500 Hz	1	5	50	5	
2	Do	1	6	50	6	
3	+ 110 V	2	5	49	11	
4	- 110 V	2	5	49	2	
5	110 V, 500 Hz	3	5	49	9	
6	Do	3	6	49	10	
7						
	(17) KHP3 16 x 1.5 <sup>B</sup> [12]	Unit	R <sub>1</sub>	Unit	R <sub>2</sub>	
1	36 V, 500 Hz	1	3	3	3	
2	Do	1	10	3	8	
3	+ 110 V	2	1	4	9	
4	- 110 V	2	1	4	10	
5	110 V, 500 Hz	3	1	3	3	
6	Do	3	1	3	4	
7	110 V, 50 Hz	4	1	3	1	
8	Do	4	2	3	2	
9	26 V, 50 Hz	4	2	3	7	
10	Do	4	10	3	8	
11	220 V, 500 Hz standby	2	7	3	9	
12	Do	2	8	3	10	
13						
14						
15						
16						

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1	2	3	4	5	6	7
	18 KHP9 14 x 1.5 <span style="border: 1px solid black; padding: 0 2px;">21</span>	Unit	81	Unit	7A	
1	36 V, 500 Hz	1	7	136	3	
2	Do	1	9	136	4	
3	+ 110 V	2	3	136	7	
4	- 110 V	3	4	136	8	
5	110 V, 500 Hz	3	3	136	1	
6	110 V, 500 Hz	3	4	136	2	
7	Do	3	10	136	10	
8	220 V, 500 Hz	1	4	136	5	
9	110 V, 50 Hz	4	7	136	6	
10	Do	4	3	136	7	
11	220 V, 500 Hz	1				
12						
13-14						
	19 KHP9 7 x 1.5 <span style="border: 1px solid black; padding: 0 2px;">4</span>	Unit	8	Unit	20	For tilt and direction gear, unit 84
1	DMB control	3	1	20	1	1
2	Do	5	5	20	2	2
3	Do	5	5	20	3	2
4	Do	5	6	20	4	4
5						
6						
7						

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1	2	3	4	5	6	7
	20 KH29T9 12 x 1 <sup>D</sup> [8]	Unit		Unit	4A	
1	Automatic gain control	4	5	6	5	
2	Signal C1	4	2	6	6	
3	Ground	4	5	6	7	
4	Signal C2	4	6	6	8	
5	Control of ADM-123-B	4	3	6	9	
6	Do	4	4	6	10	
7	Signal JM	4	6	6	3	
8	Ground	4	6	6	4	
9						
10						
11						
12						
	21 KH29T9 19 x 1 <sup>D</sup> [13]	Unit		Unit	4	
1	Tracking signal	1	8	16	1	
2	Integrating network	2	7	18	2	
3	Do	2	5	18	3	
4			6	18		
5	Ground	1				
6	Control of ADM-123-B	1	6	18	6	
7	Do	1	5	18	7	
8	ADM control	1	6	18	8	
9	Do	2	4	19	9	
10	Signal KV	1	2	18	10	
11	Ground	1	3	19	1	
12			4	19	2	
13						
14						
15	Signal NC	2	7	19	7	
16	Ground	2	8	19		
17	Dynamic error compensa-	2	9	19	6	
18	tion				4	
19						

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1	2	3	4	5	6	7
	22 KHP9T3 5 x I 4	Unit	8	Unit	7A	
1	Signal AT	10	3	135	1	
2	Do	10	4	135	2	
3	AMP control	10	4	135	3	
4	Do	10	2	135	4	
5						
	23 KHP9T3 10 x I 10	Unit	8	Unit	7	
1	Signal AT	11	3	50	1	
2	Do	11	4	50	2	
3	Signal JBT	11	5	50	3	
4	220 V. 500 Hz	3	4	50	4	
5	Signal JBT	11	6	50	5	
6	220 V. 500 Hz	3	6	50	6	
7	AMP Control	11	6	50	7	
8	Do	11	6	50	8	
9						
10						
	24 KHP9T3 10 x I 6	Unit	8	Unit	25	
1	Signal JBT	10	3	1	1	
2	Do	10	3	1	2	
3	A.G.C.	9	4	1	3	
4	Control of AMP 123-6	9	3	1	4	
5	Do	9	2	1	5	
6	Ground	9	1	1		
7						
8						
9						
10						

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1	2	3	4	5	6	7
1	25 KHP3TS 5 x 1	2	Unit	7	Unit	25
2	Range	52		5	3	9
3	Do	57		4	3	10
4						
5						
1	26 KHP3TS 10 x 1	6	Unit	4A	Unit	25
2	Data transmission	10		1	4	1
3	MBT excitation	10		2	4	2
4	Ground	10		3	4	3
5						
6	Data transmission	10		4	4	4
7	10 V 500 Hz	10		5	4	6
8	Data transmission	10			1	5
9						
10						
1	27 KHP3TS 10 x 1	5	Unit	18	Unit	25
2	Data transmission	41		3	3	1
3	Do	41		4	3	2
4	Do	41		1	3	3
5						
6	Data transmission	41		2	3	4
7						
8	Data transmission	41		5	3	5
9						
10						

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1	2	3	4	5	6	7
1	28 KMP9T3 12 x 1	Unit	24	Unit	25	2
2	Control network	134	1	2	7	
3	Signal to stylus	134	2	2	6	
4	Control network	134	3	2	2	
5	Do	134	4	2	6	
6	110 V, 500 Hz	134	5	2	6	
7	+ 110 V	134	6	2	5	
8	- 100 V	134	7	2	4	
9	110 V, 500 Hz	134	8	2	9	
10	Ground	134	9	2		
11 12						
1	28 KMP9 14 x 1.5	Unit	4	Unit	11	
2	25 V, 50 Hz	10	3	6	3	
3	KV phase 1 10	10	4	7	2	
4	KV phase 2 10	10	5	7	2	
5	KV phase 3 10	10	6	7	4	
6	110 V, 50 Hz	10	7	6	5	
7	Do	10	8	6	1	
8	Target spotted	10	9	6	2	
9	25 V, 50 Hz	10	10	6	7	
10	Phase 1, bearing	10	2	7	6	
11	Phase 2, bearing	10	7	7	4	
12	Phase 3, bearing	10	1	7	5	
13	110 V, 50 Hz	13	2	7		
14	Do	13				

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1	2	3	4	5	6	7
	30 KHP23 14 x 1 <sup>1</sup> [1]	Unit		Unit		
1	RV phase 1 PO	3	4	22	2	
2	RV phase 2 PO	3	5	22	1	
3	RV phase 3 PO	3	6	22	2	
4					3	
5	Ship's own speed V <sub>1</sub>	3	8	22	6	
6	Ship's own speed V <sub>2</sub>	3	9	22	7	
7	Length of pulse I	3	10	23	4	
8	Length of pulse III	3	1	23	6	
9						
10	Synchronization	3	3	24	2	
11	Ping control	3	10	22	5	
12	+ 20 V	3	10	22	4	
13	Standard frequency	3	10	23	5	
14						
	31 KHP23 2 x 1 <sup>1</sup> [2]	Unit		Unit	19A	
1	Signal	3	4	4	1	
2	6	3	4	4	2	
	32 KHP23 22 x 1 <sup>1</sup> [2]	Unit		Unit	4A	
1	Signal at BK	3	3	3	1	
2	Do	3	4	3	2	
3	Signal	3	4	3	4	
4	Ground	3	4	3	3	
5	Data transmission	3	4	3	10	
6	Synchronization	3	4	3	6	
7	Data transmission	3	4	3	9	
8	Synchronization	3	4	3	8	
9						

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1	2	3	4	5	6	7
10	Synchronization	11	5	8	6	
11	0	4	2	4	9	
12	Signal 2x	3	9	5	8	
13	0	12	7	5	2	
14	Signal 2x	2	10	5	6	
15	0	12	4	4	6	
16	Standard frequency of local oscillator	4	1	4	8	
16	+ 24 V	12	5	4	2	
19	Ping signal pulse	4	3	4	10	
(3) EMP979 19 x 1 14						
	Unit	4	Unit	4A		
1	Triggering pulse	11	3	5		
2	Signal	5	3	1		
3	Synchronization	11	3	1		
4	+ 110 V	5	10	3		
5	Chassis	11	10	3		
6	Take reading	5	13	3		
7	+ 250 V	11	13	3		
8	+ 110 V	5	14	2		
9	Target lost	5	14	4		
10	Synchronization	5	13	5		
11	+ 250 V	3	5	5		
12	+ 250 V	12	4	5		
13		12	5	5		
14	+ 105 V	12				
15	+ 200 V	11	2	4	4	
16			7	4	1	
17						
18						
19						

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1	2	3	4	5	6	7
	(34) RH23 19 x 1.5 (13)	Unit		Unit		
1	220 V, 50 Hz standby	1	1	2	1	
2	Do	1	2	2	4	
3	Do	1	3	1	7	
4	Do	1	4	1	8	
5	110 V, 50 Hz	1	5	3	3	
6	Do	1	6	3	4	
7	36 V, 500 Hz	1	7	3	7	
8	Do	1	8	4	8	
9	+ 110 V	2	9	4	7	
10	- 110 V	2	10	5	8	
11	110 V, 50 Hz	2	1	5	7	
12	Do	2	2	6	6	
13	25 V, 50 Hz	2	3	6	1	
14	26 V, 50 Hz	2	4	7	2	
15	220 V, 500 Hz standby	2	5	7	1	
16	Do	2	6	7	2	
17		2	7	8	9	
18		2	8	9	10	
19		2	9	10		
	(35) RH29T3 19 x 1 (13)	Unit		Unit		
1	110 V, 50 Hz	14	4	1	83	
2		14	4	2	2	
3	110 V, 50 Hz	14	5	1	1	
4	Signal YK	14	7	2	4	
5	Signal YK	14	8	2	5	
6	Pressure check	14	9	4	6	
7	Pressure check	14	10	4	7	
8						
9						
10						
11						

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	2	3	4	5	6
12	RYTH phase 1	15			
13	Signal X <sub>h</sub> PK	15	3	1	
14	RYTH phase 2	15	4	4	5
15	Signal X <sub>h</sub> PK	15	2	1	1
16	RYTH phase 3	15	5	4	4
17	Signal RV	15	8	1	2
18	Ground	15	7	4	3
19				4	4
	(36) KHP9 5 x I <sup>2</sup> [4]	Unit	4	Unit	13
1	Signal	20	4	17	7
2	Signal	20	3	17	8
3	Do	20	2	17	5
4	Do	20	1	17	6
5					
	(3P) KHP3 5 x I <sup>2</sup> [4]	Unit	4	Unit	DM IIII
1	220 V. 50 Hz	15	8	13	
2	Do	15	9	3	
3	Do	15	10	1	
4	Do	19	5	C2	
5					

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1	2	3	4	5	6	7
	(30) KHPOT9 30 x I <sup>2</sup> (10)	Unit	4	Unit	7	
4						
5						
6	+ 220 V	17				
7	0		6	48		5
8	Signal	16	4	46		5
9	+ 110 V	16	3	46		4
10	Signal	16	4	46		1
11	Triggering pulse	16	5	46		7
12	0	16	6	46		3
13	+ 110 V 4	16	2	49		6
14	+ 110 V 8	16	3	49		7
15	+ 110 V 2	16	2	49		5
16	+ 110 V	16	8	57		1
17	110 V. 50 Hz. excitation	16	7	57		9
18	Do	16	7	57		10
19	26 V. 50 Hz	16	5	45		3
20	Signalling of scale AII	16	6	45		1
21	Signalling of scale AIII	16	4	57		5
22	Signal KY (P1)	16	8	57		8
23	Signal KY (P4)	16	7	57		7
24	Signal KY (P2)	16	6	57		6
25	Signal KY (P3)	16				

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1	2	3	4	5	6	7	8	9	10
	(4) MHPD 10 x 1	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
1	Range	1	2	3	4	5	6	7	8
2	Triggering pulse	1	2	3	4	5	6	7	8
3	Range	1	2	3	4	5	6	7	8
4	Synchronization	1	2	3	4	5	6	7	8
5	Signalling	1	2	3	4	5	6	7	8
6	Do	1	2	3	4	5	6	7	8
7	Do	1	2	3	4	5	6	7	8
8	50 V, 50 Hz	1	2	3	4	5	6	7	8
9	Coupling control	1	2	3	4	5	6	7	8
10	Relay control	1	2	3	4	5	6	7	8
	(4) KHPD 10 x 1	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
1	Local oscillator standard frequency	1	2	3	4	5	6	7	8
2	Ring signal pulse	1	2	3	4	5	6	7	8
3	Ring signal pulse	1	2	3	4	5	6	7	8
6	Synchronization	1	2	3	4	5	6	7	8
7	Mode operation	1	2	3	4	5	6	7	8
9	Standard frequency	1	2	3	4	5	6	7	8
10	+ 24 V	1	2	3	4	5	6	7	8

01.10.10.4				- 10 -			
1	2	3	4	5	6	7	8
41V EHS 10 x 1 1/2" 10" 10"				4A	Unit		9
1	220 V. 50 Hz. standb.			1	2		8
2	Do			3	3		7
3	220 V. 50 Hz.			4	4		6
4	Do			5	5		5
5	110 V. 50 Hz.			6	6		4
6	Do			7	7		3
7	110 V. 50 Hz.			8	8		2
8	Do			9	9		1
9	+ 110 V			10	10		0
10	- 110 V			1	1		9
11	26 V. 50 Hz.			2	2		8
12	Do			3	3		7
(42) KHD9TS 14 x 1 1/2" 10" 10"				4A	Unit		9
1	Signal BK			1	2		8
2	Do			3	3		7
3	Signal YM			4	4		6
4	Checkback			5	5		5
5	Ground			6	6		4
6	Checkback			7	7		3
7	Do			8	8		2
8	Checkback			9	9		1
9	Do			10	10		0
10	Ground			1	1		9
11				2	2		8
12				3	3		7
13				4	4		6
14				5	5		5

AVI-106.146 A		Unit		Unit		Unit	
1	2	3	4	5	6	7	8
1	(43) RHPB 5 x 1 (4)	Unit	4A	Unit	13		
2	Signal	7	7	17	1		
3	Do	7	8	17	2		
4	Do	7	9	17	3		
			10	1	4		
	(44) RHPB 12 x 1 (9)	Unit	4A	Unit	7A		
1	110 V 50 Hz	11	3	132	1		
2	Do	11	4	133	2		
3	Signalling	11	5	134	3		
4	Data transmission	11	6	135	4		
5	Do	11	7	136	5		
6	Do	11	8	137	6		
7	Control network	11	9	138	7		
8	Do	11	10	139	8		
9	Signalling	11	11	140	9		
10-12							
	(45) RHPB 44 x 1 (25)	Unit	2A	Unit	18		
1	Data transmission	131	1	37	2		
2	Do	131	2	38	3		
3	Do	131	3	39	4		
4	Do	131	4	40	5		
5	Do	131	5	41	6		
6	Do	131	6	42	7		
7	Do	131	7	43	8		
8	Do	131	8	44	9		
9	Do	131	9	45	10		
10	Do	131	10	46	11		
11	Do	131	11	47	12		

Time	Frequency	Power	Modulation	Remarks
12				2
13	Data transmission	100		
14		100		
15	Do	100		
16	Do	100		
17	Do	100		
18	Do	100		
19	Do	100		
20	Do	100		
21	Do	100		
22	Do	100		
23	Do	100		
24	Do	100		
25	Do	100		
26	Do	100		
27	Do	100		
28	Do	100		
29	Do	100		
30	Ground	100		
31	Data transmission	100		
32	Do	100		
33	Do	100		
34	Do	100		
35	Do	100		
36	Do	100		
37	Do	100		
38	Do	100		
39				
40				
41	Data transmission	100		
42				
43				
44				

Pulse Width		Pulse Rate	
1	2	3	4
1	Triggering	100	100
2	Relay plug	100	100
3	Relay	100	100
4	Relay control	100	100
5	Relay	100	100
6	Relay	100	100
Pulse Width		Pulse Rate	
1	High frequency	100	100
2	Relay and relay	100	100
3	Relay	100	100
4	High frequency	100	100
5	Relay and relay	100	100
Pulse Width		Pulse Rate	
1	Relay	100	100
2	Relay	100	100
3	Relay	100	100
4	Relay	100	100
5	Relay	100	100

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1	(50) KHPD 5 x 10 <sup>11</sup>					
2	+ 110 V	1	10			
3	- 110 V	2	10			
4	110 V, 50 Hz	3	10			
5	De	4	10			
6		5	10			
7	(51) KHPD 12 x 2.5 <sup>11</sup> 10 <sup>11</sup>	Unit				
8	110 V, 50 Hz	1	Unit			
9	De	2	10			
10	De	3	10			
11	110 V, 50 Hz randomly	4	10			
12	De	5	10			
13	De	6	10			
14	+ 110 V	7	10			
15	- 110 V	8	10			
16	110 V, 50 Hz	9	10			
17	De	10	10			
18		11	10			
19		12	10			
20		13	10			
21		14	10			
22		15	10			
23		16	10			
24		17	10			
25		18	10			
26		19	10			
27		20	10			
28		21	10			
29		22	10			
30		23	10			
31		24	10			
32		25	10			
33		26	10			
34		27	10			
35		28	10			
36		29	10			
37		30	10			
38		31	10			
39		32	10			
40		33	10			
41		34	10			
42		35	10			
43		36	10			
44		37	10			
45		38	10			
46		39	10			
47		40	10			
48		41	10			
49		42	10			
50		43	10			
51		44	10			
52		45	10			
53		46	10			
54		47	10			
55		48	10			
56		49	10			
57		50	10			
58		51	10			
59		52	10			
60		53	10			
61		54	10			
62		55	10			
63		56	10			
64		57	10			
65		58	10			
66		59	10			
67		60	10			
68		61	10			
69		62	10			
70		63	10			
71		64	10			
72		65	10			
73		66	10			
74		67	10			
75		68	10			
76		69	10			
77		70	10			
78		71	10			
79		72	10			
80		73	10			
81		74	10			
82		75	10			
83		76	10			
84		77	10			
85		78	10			
86		79	10			
87		80	10			
88		81	10			
89		82	10			
90		83	10			
91		84	10			
92		85	10			
93		86	10			
94		87	10			
95		88	10			
96		89	10			
97		90	10			
98		91	10			
99		92	10			
100		93	10			
101		94	10			
102		95	10			
103		96	10			
104		97	10			
105		98	10			
106		99	10			
107		100	10			
108		101	10			
109		102	10			
110		103	10			
111		104	10			
112		105	10			
113		106	10			
114		107	10			
115		108	10			
116		109	10			
117		110	10			
118		111	10			
119		112	10			
120		113	10			
121		114	10			
122		115	10			
123		116	10			
124		117	10			
125		118	10			
126		119	10			
127		120	10			
128		121	10			
129		122	10			
130		123	10			
131		124	10			
132		125	10			
133		126	10			
134		127	10			
135		128	10			
136		129	10			
137		130	10			
138		131	10			
139		132	10			
140		133	10			
141		134	10			
142		135	10			
143		136	10			
144		137	10			
145		138	10			
146		139	10			
147		140	10			
148		141	10			
149		142	10			
150		143	10			
151		144	10			
152		145	10			
153		146	10			
154		147	10			
155		148	10			
156		149	10			
157		150	10			
158		151	10			
159		152	10			
160		153	10			
161		154	10			
162		155	10			
163		156	10			
164		157	10			
165		158	10			
166		159	10			
167		160	10			
168		161	10			
169		162	10			
170		163	10			
171		164	10			
172		165	10			
173		166	10			
174		167	10			
175		168	10			
176		169	10			
177		170	10			
178		171	10			
179		172	10			
180		173	10			
181		174	10			
182		175	10			
183		176	10			
184		177	10			
185		178	10			
186		179	10			
187		180	10			
188		181	10			
189		182	10			
190		183	10			
191		184	10			
192		185	10			
193		186	10			
194		187	10			
195		188	10			
196		189	10			
197		190	10			
198		191	10			
199		192	10			
200		193	10			
201		194	10			
202		195	10			
203		196	10			
204		197	10			
205		198	10			
206		199	10			
207		200	10			
208		201	10			
209		202	10			
210		203	10			
211		204	10			
212		205	10			
213		206	10			
214		207	10			
215		208	10			
216		209	10			
217		210	10			
218		211	10			
219		212	10			
220		213	10			
221		214	10			
222		215	10			
223		216	10			
224		217	10			
225		218	10			
226		219	10			
227		220	10			
228		221	10			
229		222	10			
230		223	10			
231		224	10			
232		225	10			
233		226	10			
234		227	10			
235		228	10			
236		229	10			
237		230	10			
238		231	10			
239		232	10			
240		233	10			
241		234	10			
242		235	10			
243		236	10			
244		237	10			
245		238	10			
246		239	10			
247		240	10			
248		241	10			
249		242	10			
250		243	10			
251		244	10			
252		245	10			
253		246	10			
254		247	10			
255		248	10			
256		249	10			
257		250	10			
258		251	10			
259		252	10			
260		253	10			
261		254	10			
262		255	10			
263		256	10			
264		257	10			
265		258	10			
266		259	10			
267		260	10			
268		261	10			
269		262	10			
270		263	10			
271		264	10			
272		265	10			
273		266	10			
274		267	10			
2						

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1	2	3	4	5	6
(56) KHP3 3 x 1.5	Unit	21	Unit	15	
1 200 V, 50 Hz	48	1	14	7	
2 Do	48	2	14	7	
3		3			
(57) KHP3 3 x 4	Unit	21	Transf.	TC3 2.5/0.5	
1 200 V, 50 Hz	48	1			
2 Do	48	2			
3		3			
(58) KHP3 3 x 1.5	Unit	21	Unit	15	
1 + 110 V	49	1	14	7	
2 - 110 V	49	2	14	7	
3		3			
(59) KHP3 3 x 4	Unit	21	Network	220 V, 50 Hz	
1 220 V, 50 Hz	48	1			
2 Do	46	2			
3	48	3			
(59) KHP3 3 x 1.5	Unit	21	Network d.c		
1 + 110 V	49	1			
2 - 110 V	49	2			
3		3			

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1	2	3	4	5	6	7
1	(60) KHP9 2 x 1.5 <sup>1</sup> (2)	Unit	21	Network	230 V, 500 Hz	
2	220 V, 500 Hz	49	3			
3	Do	42	4			
4	KHP9T9 16 x 1 (12)	Unit	4	Byte		
5	Signal X <sub>0</sub> PK (P <sub>0</sub> )	9	1			
6	Signal X <sub>0</sub> PK (P <sub>0</sub> )	7	2			
7	Data transmission	8	3			
8	Signal Z <sub>k</sub>	6	4			
9	Data transmission	7	5			
10	Signal Z <sub>k</sub>	6	6			
11	Signal X <sub>k</sub> PK (P <sub>0</sub> )	6	7			
12	Signal X <sub>k</sub> PK (P <sub>0</sub> )	6	8			
13	Signal Y <sub>0</sub> PK (P <sub>0</sub> )	7	9			
14	Signal Y <sub>0</sub> PK (P <sub>0</sub> )	7	10			
15	Signal Y <sub>k</sub>	6				
16	Signal Y <sub>k</sub>	6				
1	(61) KHP9 19 x 1.5 <sup>1</sup> (12)	Unit	4A	Fire control system		
2	Take reading	14	2			
3	Target lost	14	3			
4	+ 110 V	14	4			
5	Depth	15	5			
6	Do	15	6			
7	110 V, 50 Hz	15	7			

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1	2	3	4	5	6	7
8	110 V, 50 Hz	15	2			
9	Signal Depth	16	4			
10	+ 110 V signalling	16	4			
11	Signalling operation start	19	4			
12	- 110 V signalling	19	4			
13						
14						
15						
16						
17						
18						
19						
	KHP9 7 x I 5	Unit 11		Gyrocompass		
1	110 V, 50 Hz 01	7	4			
2	110 V, 50 Hz 02	7	5			
3	Phase 2, bearing	7	6			
4	Phase 2, bearing	7	7			
5	Phase 1, bearing	7	8			
6						
7						

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1	2	3	4	5	6	7
	62 KHP909 24 x 1" 16	Unit				
1	Scale voltage ABT-D	48	7			
2	Scale voltage ABT-D	48	9			
3	110 V 500 Hz	48	10			
4	+ 110 V	48	8			
5	110 V 500 Hz	48	2			
6	+ 110 V	48	7			
7	Signal KV (P1)	57	10			
8	Signal KV (P2)	57	5			
9	Signal KV (P3)	57	6			
10	Signal KV (P4)	57	7			
11	Signal: Take range	57	9			
12	Signal KV (P4)	57	8			
13	Range 3	46	10			
14	Range 4	46	9			
15	Range 2	46	8			
16	110 V 500 Hz	57	9			
17	110 V 500 Hz	57	10			
18						
19						
20						
21						
22						
23						
24						